Amendments to the Claims

The following is a complete listing of the claims pending in the application, as amended. This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A method of generating tethered extracellular ~~or intracellular~~ domains of transmembrane proteins comprising:

~~(a)~~ preparing an expression vector comprising a 5' signal sequence, a purification epitope tag, a sequence coding for the extracellular domain of a membrane protein, and a 3' anchor sequence; and

transfecting mammalian cells with said expression vector to generate an anchor tethered protein targeted to the extracellular domain of a plasma membrane~~;~~ ~~or~~

~~(b) preparing an expression vector comprising a 5' myristoylation encoding sequence, a sequence coding for the intracellular domain of a membrane protein, and a 3' purification epitope tag; and~~

~~transfecting mammalian cells with said expression vector to generate a myristoylated tethered protein targeted to the intracellular domain of a membrane.~~

2. (Original) The method according to claim 1, wherein said 3' anchor sequence is a GPI anchor sequence.

3. (Original) The method according to claim 2, wherein said GPI-anchor sequence comprises the 32 terminal amino acids of the GPI-anchoring sequence.

4. (Previously presented) The method according to claim 1, wherein said mammalian cells are CHO cells.

5. (Previously presented) The method according to claim 1, wherein said signal sequence is epidermal growth factor.

6. (Previously presented) The method according to claim 1, wherein said purification epitope tag is a hexa-histidine epitope tag.

7. (Withdrawn - Previously presented) The method according to claim 1, wherein said myristoylation-encoding sequence is a c-Src myristoylation-encoding sequence.

8. (Withdrawn) An expression vector for generating a tethered extracellular domain protein comprising:

a 5' signal sequence,

a purification epitope tag;

a sequence coding for the extracellular domain of a membrane protein; and

a 3' anchor sequence.

9. (Withdrawn) The vector according to claim 8, wherein said anchor sequence is a GPI sequence.

10. (Withdrawn - Previously presented) The vector according to claim 8, wherein said purification epitope tag is a hexa-histidine epitope tag.

11. (Withdrawn) An expression vector for generating a tethered intracellular domain protein comprising:

a 5' signal sequence for myristoylation;

a sequence coding for the intracellular domain of a membrane protein; and

a 3' purification epitope tag.

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12. (Withdrawn) The vector according to claim 11, wherein said purification epitope tag is a hexa-histidine epitope tag.

13. (Withdrawn - Previously presented) The method according to claim 1, wherein said mammalian cells are HEK-293 cells.

14. (Withdrawn - Previously presented) The method according to claim 1, wherein said signal sequence is selected from a protein selected from the group consisting of insulin, nerve growth factor, platelet-derived growth factor, glucagon, ICAM-1, B7-1, TrkA, platelet-derived growth factor receptor, and CD58.